Mr. Svarc's Missing $ Problem...REALLY???

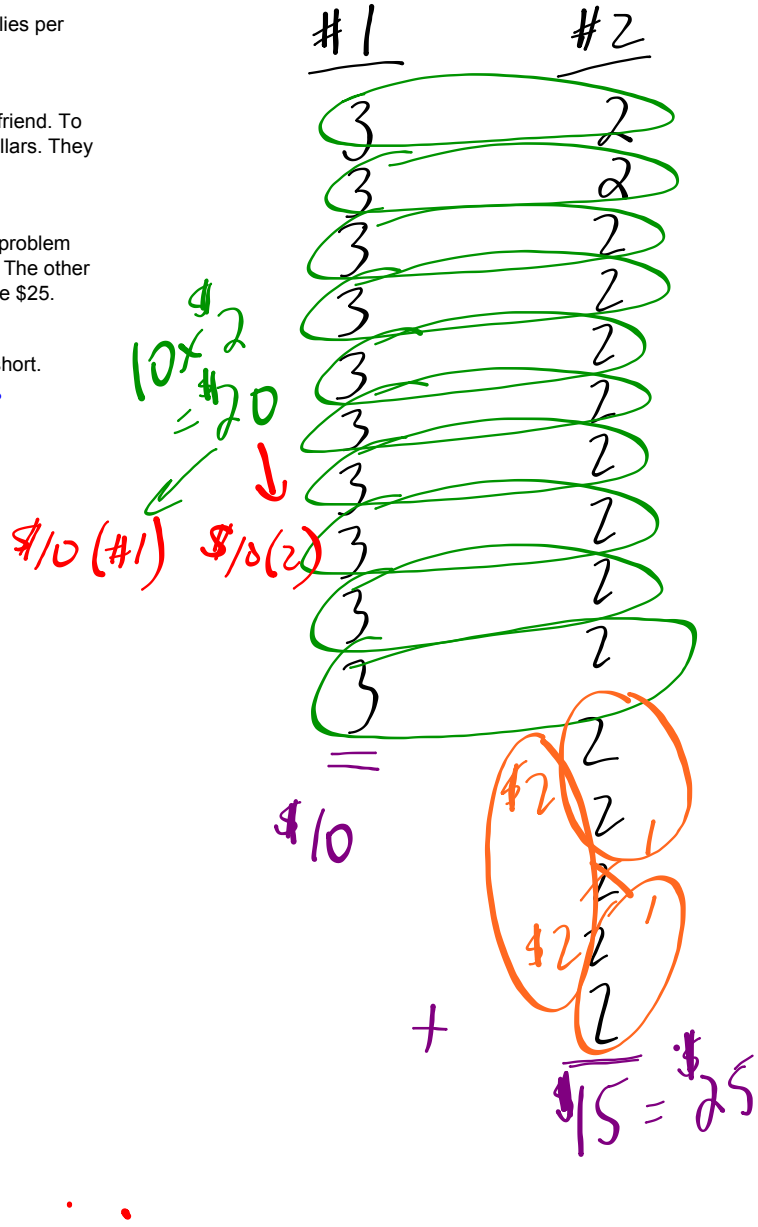
Two men were selling Atlantic Salmon Flies: one man sold 3 flies per dollar and the other man sold 2 flies per dollar.

One day they were both away so they each left 30 flies with a friend. To simplify the reckoning, the friend decided to sell 5 flies for 2 dollars. They sold them all and took in 24 dollars.

When it came to dividing up the sales between the owners...a problem arose. The one who had 30 flies at 3 for a dollar wanted $10. The other who had 30 flies at 2 for a dollar wanted $15. In total this made $25.

The friend only made $24 which means that they are a dollar short.

WHAT HAPPENED TO THE MISSING DOLLAR???



Old MacDonald's Last Wishes...

Old MacDonald had 17 cows. He died. His will said...

The first daughter Malia gets 1/2 of the cows.

The second daughter Lainey gets 1/3 of the cows.

The third daughter Janna gets 1/9 of the cows.

The daughters could not figure out how to divide the cows.

Mr. Hallihan wanted to help so he loaned a cow to them.

Then the first daughter took 1/2 of 18 cows = 9 cows.

The second daughter took 1/3 of 18 or 6 cows.

The third daughter took 1/9 of 18 or 2 cows.

That makes 9 + 6 + 2 = 17 cows. So Mr. Hallihan took his cow back home.

Explain???

$\frac{2 \cdot 1}{2 \cdot 9} + \frac{6 \cdot 1}{6 \cdot 3} + \frac{9 \cdot 1}{9 \cdot 2}$

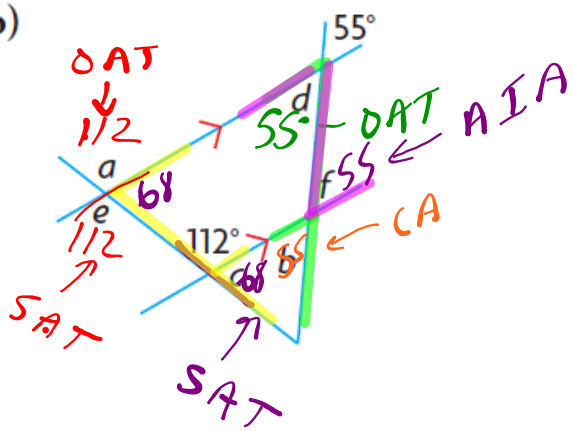
$\frac{17}{18}$

Homework...

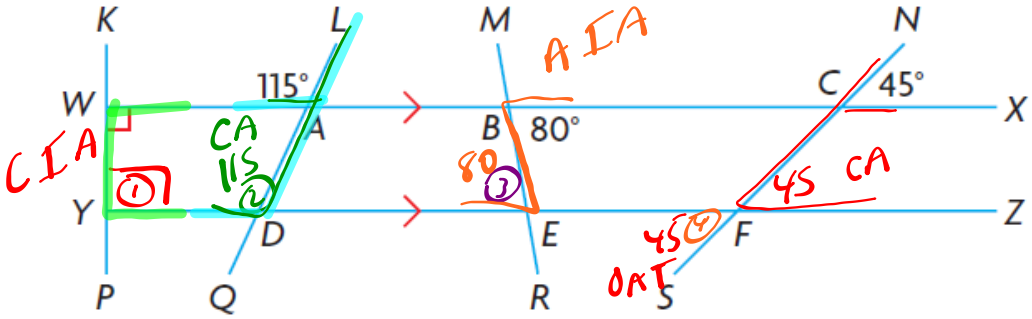
p. 72: #2

p. 78: #1, 4, 15

b)

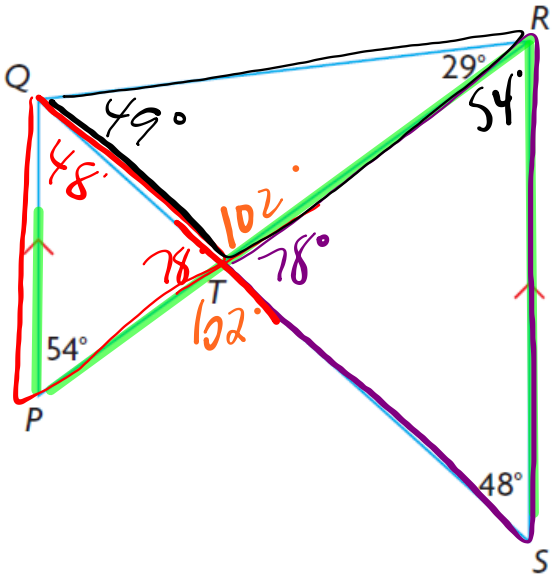


1. Determine the measures of $\angle WYD$, $\angle YDA$, $\angle DEB$, and $\angle EFS$. Give your reasoning for each measure.



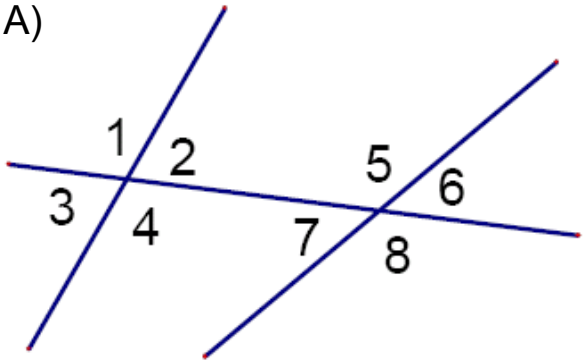
15. Determine the measures of all the unknown angles in this diagram, given $PQ \parallel RS$.

Parallel //



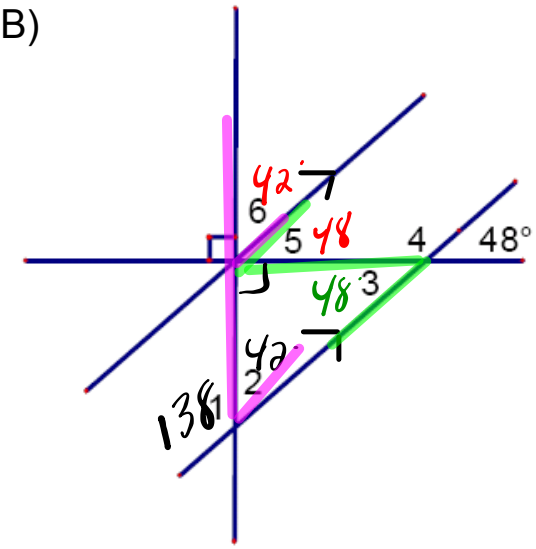
EXERCISE: Practice...

A)



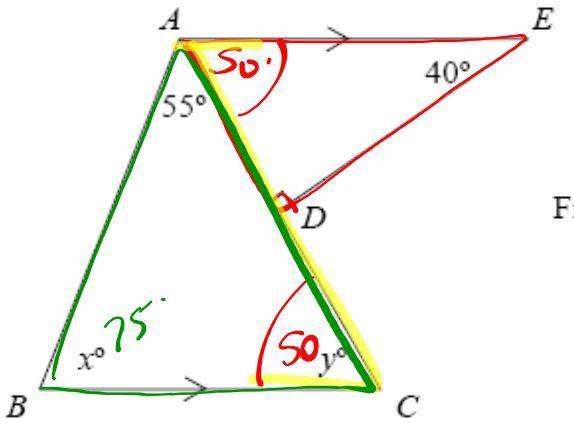
1. <3 and <__7__ are corresponding angles.
2. <4 and <__5__ are alternate interior angles.
3. <5 and <__2__ are same-side interior angles. CIA

B)



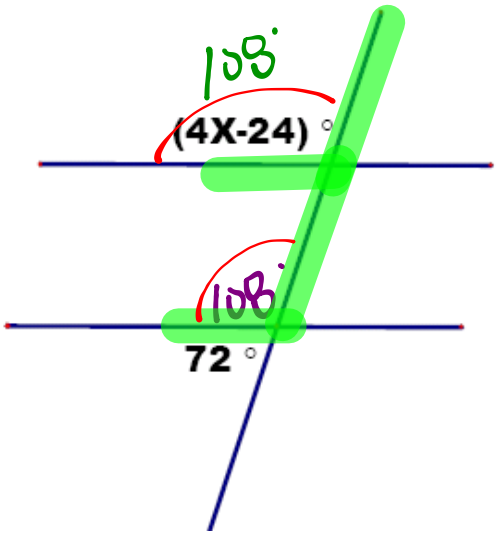
1. m<1 = __138°__ SAT
2. m<2 = __42°__ CA
3. m<3 = __48°__ OAT
4. m<4 = __132°__ SAT
5. m<5 = __48°__ AIA
6. m<6 = __42°__ CAT & SAT

C)



Find $x°$ and $y°$.

D)



$4x - 24 = 105$

$4x = 108 + 24$

$\frac{4x}{4} = \frac{132}{4}$

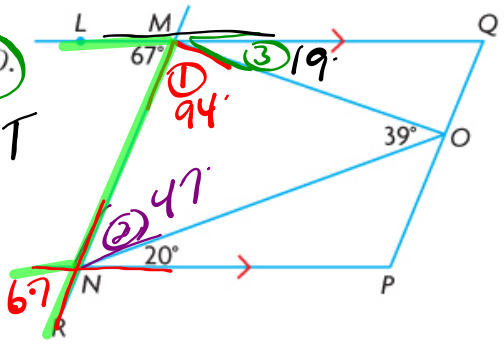
x = _____

$x = 33°$

EXAMPLE 3 Using reasoning to solve problems

JUSTIFY!!!

Determine the measures of $\angle NMO$, $\angle MNO$, and $\angle QMO$.



Tyler's Solution

MN is a transversal of parallel lines LQ and NP. — *MN* intersects parallel lines *LQ* and *NP*.

$\angle MNO + 20° = 67°$
$\angle MNO = 47°$
— Since $\angle LMN$ and $\angle MNP$ are alternate interior angles between parallel lines, they are equal.

$\angle NMO + \angle MNO + 39° = 180°$
$\angle NMO + (47°) + 39° = 180°$
$\angle NMO + 86° = 180°$
$\angle NMO = 94°$
— The measures of the angles in a triangle add to 180°.

$\angle NMO + \angle QMO + 67° = 180°$
$(94°) + \angle QMO + 67° = 180°$
$161° + \angle QMO = 180°$
$\angle QMO = 19°$
— $\angle LMN$, $\angle NMO$, and $\angle QMO$ form a straight line, so their measures must add to 180°.

The measures of the angles are:
$\angle MNO = 47°$; $\angle NMO = 94°$; $\angle QMO = 19°$.

HOMEWORK...

1) Assignment - Angle Properties (DUE MONDAY)

2) Quiz

Attachments

Assignment - Angle Properties.pdf